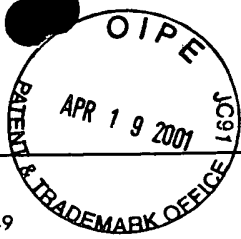


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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.285000C

APPLICATION NO.  
09/648,790

APPLICANT  
HARTLEY *et al.*

FILING DATE  
August 28, 2000

GROUP  
1636

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | NAME                  | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|------------|-----------------------|-------|-----------|-------------|
|                  | AA  |                 |            |                       |       |           |             |
|                  | AB  |                 |            |                       |       |           |             |
|                  | AC  |                 |            |                       |       |           |             |
|                  | AD  |                 |            |                       |       |           |             |
| 9                | AE4 | 5,286,632       | 02/15/1994 | Jones, D.H.           | 435   | 91.2      | 01/09/1991  |
|                  | AF4 | 5,650,308       | 07/22/1997 | Baum, J.A.            | 435   | 172-3     | 06/07/1995  |
|                  | AG4 | 6,143,557       | 11/07/2000 | Hartley <i>et al.</i> | 435   | 320.1     | 01/20/1999  |
|                  | AH  |                 |            |                       |       |           |             |
|                  | AI  |                 |            |                       |       |           |             |
|                  | AJ  |                 |            |                       |       |           |             |
|                  | AK  |                 |            |                       |       |           |             |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | COUNTRY  | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|----------|-------|-----------|-------------|
|                  | AL  |                 |            |          |       |           | Yes<br>No   |
|                  | AM  |                 |            |          |       |           | Yes<br>No   |
|                  | AN  |                 |            |          |       |           | Yes<br>No   |
| A                | AO4 | WO 94/09127     | 04/28/1994 | WIPO/PCT |       |           | Yes<br>No   |
| A                | AP4 | WO 98/53056     | 11/26/1998 | WIPO/PCT |       |           | X Yes<br>No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |   |
|---|----|----|---|
|   | AR |    |   |
| 2 | AS | 67 | Albert, H., <i>et al.</i> , "Site-specific integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome," <i>Plant J.</i> 7:649-659, Oxford Bios Scientific Publishers and Blackwell Scientific Publications In Association With The Society For Experimental Biology (1995). |
|   | AT | 67 | Andrews, B.J., <i>et al.</i> , "The FLP Recombinase of the 2 $\mu$ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803, MIT Press (1985).   |

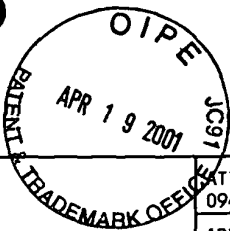
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0942.285000CAPPLICATION NO.  
09/648,790APPLICANT  
HARTLEY *et al.*FILING DATE  
August 28, 2000GROUP  
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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|----|-----------------|------|------|-------|-----------|-------------|
|                     | AA |                 |      |      |       |           |             |
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|                     | AC |                 |      |      |       |           |             |
|                     | AD |                 |      |      |       |           |             |
|                     | AE |                 |      |      |       |           |             |
|                     | AF |                 |      |      |       |           |             |
|                     | AG |                 |      |      |       |           |             |
|                     | AH |                 |      |      |       |           |             |
|                     | AI |                 |      |      |       |           |             |
|                     | AJ |                 |      |      |       |           |             |
|                     | AK |                 |      |      |       |           |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |     | DOCUMENT NUMBER | DATE       | COUNTRY  | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------------|----------|-------|-----------|-------------|
|                     | AL5 | WO 99/21977     | 05/06/1999 | WIPO/PCT |       |           | Yes<br>No   |
|                     | AM5 | WO 99/25851     | 05/27/1999 | WIPO/PCT |       |           | Yes<br>No X |
|                     | AN5 | WO 99/55851     | 11/04/1999 | WIPO/PCT |       |           | Yes<br>No   |
|                     | AO5 | WO 00/60091     | 10/12/2000 | WIPO/PCT |       |           | Yes<br>No   |
|                     | AP5 | WO 01/05961     | 01/25/2001 | WIPO/PCT |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>68</u> | Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Co. (August 1996).   |
|  | AS | <u>68</u> | Dale, E.C., and Ow, D.W., "Mutations in the Cre/lox recombination site enhance the stability of recombination products: Applications for gene targeting in plants," <i>J. Cell. Biochem.</i> 16(Suppl. F):206, abstract no. Y 108, John Wiley & Sons (1992). |
|  | AT | <u>68</u> | Davies, J., and Riechmann, L., "An antibody VH domain with a lox-Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," <i>FEBS Letts.</i> 377:92-96, Federation of European Biochemical Societies (1995).  |

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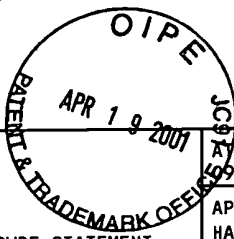
DATE CONSIDERED

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HARTLEY *et al.*

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## U.S. PATENT DOCUMENTS

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|------------------|----|-----------------|------|------|-------|-----------|-------------|
|                  | AA |                 |      |      |       |           |             |
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|                  | AF |                 |      |      |       |           |             |
|                  | AG |                 |      |      |       |           |             |
|                  | AH |                 |      |      |       |           |             |
|                  | AI |                 |      |      |       |           |             |
|                  | AJ |                 |      |      |       |           |             |
|                  | AK |                 |      |      |       |           |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | COUNTRY  | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|----------|-------|-----------|-------------|
|                  | AL6 | WO 01/11058     | 02/15/2001 | WIPO/PCT |       |           | Yes<br>No   |
|                  | AM  |                 |            |          |       |           | Yes<br>No   |
|                  | AN  |                 |            |          |       |           | Yes<br>No   |
|                  | AO  |                 |            |          |       |           | Yes<br>No   |
|                  | AP  |                 |            |          |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

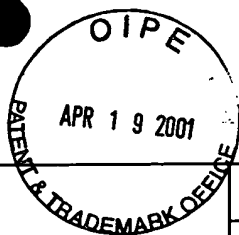
|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>69</u> | Hall, R.M., and Collis, C.M., "Mobile gene cassettes and integrons: capture and spread of genes by site-specific recombination," <i>Molec. Microbiol.</i> 15:593-600, Blackwell Science Ltd. (1995).                       |
|  | AS | <u>69</u> | Krafte, D.S., <i>et al.</i> , "Stable Expression and Functional Characterization of a Human Cardiac Na <sup>+</sup> Channel Gene in Mammalian Cells," <i>J. Mol. Cell Cardiol.</i> 27:823-830, Academic Press Ltd. (1995). |
|  | AT | <u>69</u> | Lee, G., and Saito, I., "Role of nucleotide sequences of <i>loxP</i> spacer region in Cre-mediated recombination," <i>Gene</i> 216:55-65, Elsevier Science B.V. (August 1998).   |

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3/21/02

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|                     | AA |                 |      |      |       |           |             |
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|                     | AF |                 |      |      |       |           |             |
|                     | AG |                 |      |      |       |           |             |
|                     | AH |                 |      |      |       |           |             |
|                     | AI |                 |      |      |       |           |             |
|                     | AJ |                 |      |      |       |           |             |
|                     | AK |                 |      |      |       |           |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>70</u> | Simpson, J.C., <i>et al.</i> , "Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing," <i>EMBO Rep.</i> 1:287-292, European Molecular Biology Organization (2000).             |
|  | AS | <u>70</u> | Venkatesh, T.V., and Radding, C.M., "Ribosomal Protein S1 and NusA Protein Complexed to Recombination Protein $\beta$ of Phage $\lambda$ ," <i>J. Bacteriol.</i> 175:1844-1846, American Society for Microbiology (1993). |
|  | AT | <u>70</u> | Zahra, D.G., <i>et al.</i> , "Selectable in-vivo recombination to increase antibody library size -- an improved phage display vector system," <i>Gene</i> 227:49-54, Elsevier Science B.V. (1999).                        |

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1636

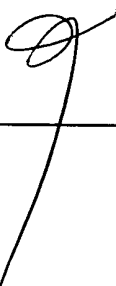
## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|                     | AA |                 |      |      |       |           |             |
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|                     | AG |                 |      |      |       |           |             |
|                     | AH |                 |      |      |       |           |             |
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|                     | AJ |                 |      |      |       |           |             |
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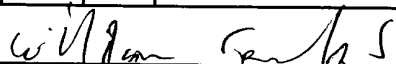
## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |  |
|---|----|----|--|
|  | AR | 71 | Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 98/53056 (Doc. No. AP4), WPI Accession No. 1999-000502/199901. |
|   | AS | 71 | Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 99/25851 (Doc. No. AM5), WPI Accession No. 1999-347485/199929. |
|   | AT |    |  |

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3/2/01

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| FORM PTO-1449<br><br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |
|  |                                  |                               |

| U. S. PATENT DOCUMENTS |     |                    |            |                      |       |               |             |
|------------------------|-----|--------------------|------------|----------------------|-------|---------------|-------------|
| EXAMINER<br>INITIAL    |     | DOCUMENT<br>NUMBER | DATE       | NAME                 | CLASS | SUB-<br>CLASS | FILING DATE |
| DA                     | AA1 | 4,673,640          | 06/16/1987 | Backman, K.C.        | 435   | 68            | 04/30/1984  |
|                        | AB1 | 4,743,546          | 05/10/1998 | Backman et al.       | 435   | 108           | 02/13/1985  |
|                        | AC1 | 4,959,317          | 09/25/1990 | Sauer B.L.           | 435   | 172.3         | 04/29/1987  |
|                        | AD1 | 5,227,288          | 07/13/1993 | Blattner, F.R.       | 435   | 6             | 10/01/1990  |
|                        | AE1 | 5,354,668          | 10/11/1994 | Auerbach, J.I.       | 435   | 91.1          | 10/15/1993  |
|                        | AF1 | 5,434,066          | 07/18/1995 | Bebbee, R.L., et al. | 435   | 172.3         | 03/15/1994  |
|                        | AG1 | 5,470,727          | 11/28/1995 | Mascarenhas et al.   | 435   | 172.3         | 12/21/1993  |
|                        | AH1 | 5,591,609          | 01/07/1997 | Auerbach, J.I.       | 435   | 91.2          | 02/03/1995  |
|                        | AI1 | 5,614,389          | 03/25/1997 | Auerbach, J.I.       | 435   | 91.2          | 09/26/1995  |
|                        | AJ1 | 5,635,381          | 06/03/1997 | Hooykaas et al.      | 435   | 172.3         | 01/20/1995  |
|                        | AK1 | 5,658,772          | 08/19/1997 | Odell et al.         | 435   | 172.3         | 07/27/1994  |

| FOREIGN PATENT DOCUMENTS |     |                 |            |         |       |           |             |
|--------------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| [Handwritten marks]      | AL1 | EP 0 160 571 A2 | 11/06/1985 | Europe  |       |           | Yes<br>No   |
|                          | AM1 | EP 0 300 422    | 01/25/1989 | Europe  |       |           | Yes<br>No   |
|                          | AN1 | WO 91/02801     | 03/07/1991 | WIPO    |       |           | Yes<br>No   |
|                          | AO1 | WO 91/16427     | 10/31/1991 | WIPO    |       |           | Yes<br>No   |
|                          | AP1 | WO 92/20791     | 11/26/1992 | WIPO    |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |   |  |
|--|----|---|--|
| [Handwritten marks]  | AR | 1 | Abremski, K., and Gottesman, S., "Purification of the Bacteriophage $\lambda$ xis Gene Product Required for $\lambda$ Excisive Recombination," <i>J. Biol. Chem.</i> 257(16):9658-9662, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1982).         |
|  | AS | 1 | Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1984).                  |
|  | AT | 1 | Abremski, K., et al., "Bacteriophage P1 Cre-loxP Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261(1):391-396, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1986). |

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|---------------------------|----------------------------|
| EXAMINER<br>William Sachs | DATE CONSIDERED<br>2/21/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |     |                 |            |                 |       |           |             |
|-----------------------|-----|-----------------|------------|-----------------|-------|-----------|-------------|
| EXAMINER INITIAL      |     | DOCUMENT NUMBER | DATE       | NAME            | CLASS | SUB-CLASS | FILING DATE |
| <i>SM</i>             | AA2 | 5,677,170       | 10/14/1997 | Devine et al.   | 435   | 20.1      | 03/02/1994  |
|                       | AB2 | 5,677,177       | 10/14/1997 | Wahl et al.     | 435   | 325       | 06/07/1995  |
|                       | AC2 | 5,710,248       | 01/20/1998 | Grose, C.F.     | 530   | 327       | 07/29/1996  |
|                       | AD2 | 5,723,765       | 03/03/1998 | Oliver et al.   | 800   | 208       | 06/07/1995  |
|                       | AE2 | 5,733,733       | 03/31/1998 | Auerbach, J.I.  | 435   | 6         | 02/01/1996  |
|                       | AF2 | 5,733,743       | 03/31/1998 | Johnson et al.  | 435   | 320.1     | 06/10/1996  |
|                       | AG2 | 5,744,336       | 04/28/1998 | Hodges et al.   | 435   | 172.3     | 03/08/1996  |
|                       | AH2 | 5,766,891       | 06/16/1998 | Shuman, S.      | 435   | 91.41     | 12/19/1994  |
|                       | AI2 | 5,776,449       | 07/07/1998 | Baum et al.     | 424   | 93.2      | 09/20/1996  |
|                       | AJ2 | 5,830,707       | 11/03/1998 | Bushman, F.D.   | 435   | 69.7      | 06/05/1995  |
|                       | AK2 | 5,837,242       | 11/17/1998 | Holliger et al. | 424   | 136.1     | 05/14/1996  |

| FOREIGN PATENT DOCUMENTS |     |                 |            |         |       |           |             |
|--------------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| <i>h</i>                 | AL2 | WO 93/15191     | 08/05/1993 | WIPO    | —     | —         | Yes<br>No   |
|                          | AM2 | WO 93/19172     | 09/30/1993 | WIPO    | —     | —         | Yes<br>No   |
|                          | AN2 | CA 2,141,412    | 02/17/1994 | Canada  | —     | —         | Yes<br>No   |
|                          | AO2 | WO 94/17176     | 08/04/1994 | WIPO    | —     | —         | Yes<br>No   |
|                          | AP2 | WO 95/00555     | 01/05/1995 | WIPO    | —     | —         | Yes<br>No   |


| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |          |   |
|--|----|----------|---|
| <i>CP</i>  | AR | <u>2</u> | Abremski, K., et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," Cell 32:1301-1311, Cell Press, Cambridge, MA (1993). |
| <i>1</i>   | AS | <u>2</u> | Adams, D.E., et al., "Cre-lox Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>in Vitro</i> Reaction," J. Mol. Biol. 226:661-673, Academic Press, Inc., New York, NY (1992). |
| <i>1</i>   | AT | <u>2</u> | Andrews, B.J., et al., "The FLP Recombinase of the 2 $\mu$ Circle DNA of Yeast: Interaction with Its Target Sequences," Cell 40:795-803, Cell Press, Cambridge, MA (1985).                                      |

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|-------------------------------|--------------------------------|
| EXAMINER <i>William Smith</i> | DATE CONSIDERED <i>3/21/02</i> |
|-------------------------------|--------------------------------|

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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |
|  |                                  |                               |

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL   |     | DOCUMENT<br>NUMBER | DATE       | NAME                 | CLASS | SUB-<br>CLASS | FILING DATE |
|---|-----|--------------------|------------|----------------------|-------|---------------|-------------|
|  | AA3 | 5,843,772          | 12/01/1998 | Devine, S.E., et al. | 435   | 69.1          | 11/18/1994  |
|   | AB3 | 5,851,808          | 12/22/1998 | Elledge et al.       | 435   | 172.3         | 02/28/1997  |
|   | AC3 | 5,858,657          | 01/12/1999 | Winter et al.        | 435   | 6             | 06/07/1995  |
|   | AD3 | 5,871,907          | 02/16/1999 | Winter et al.        | 435   | 6             | 03/31/1994  |
|   | AE3 | 5,874,259          | 02/23/1999 | Szybalski, W.        | 435   | 91.1          | 11/21/1997  |
|   | AF3 | 5,888,732          | 03/30/1999 | Hartley et al.       | 435   | 6             | 06/07/1996  |
|   | AG3 | 5,916,804          | 06/29/1999 | Bushman, F.D.        | 435   | 325           | 04/17/1998  |
|   | AH3 | 5,919,676          | 07/06/1999 | Graham et al.        | 435   | 172.3         | 06/07/1995  |
|   | AI3 | 5,928,914          | 07/27/1999 | Leboulch et al.      | 435   | 172.3         | 11/05/1996  |
|   | AJ3 | 5,989,872          | 11/22/1999 | Luo et al.           | 435   | 91.2          | 08/12/1997  |
|   | AK3 | 6,010,884          | 01/04/2000 | Griffiths et al.     | 435   | 69.7          | 05/29/1996  |

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|------------------|-----------------|-------------|------------|-------|-----------|-------------|
|                  | AL3             | WO 97/06265 | 02/20/1997 | WIPO  |           | Yes<br>No   |
|                  | AM3             | WO 97/09436 | 03/13/1997 | WIPO  |           | Yes<br>No   |
|                  | AN3             | WO 97/25446 | 07/17/1997 | WIPO  |           | Yes<br>No   |
|                  | AO3             | WO 97/32481 | 09/12/1997 | WIPO  |           | Yes<br>No   |
|                  | AP3             | WO 98/10086 | 03/12/1998 | WIPO  |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**


|  |    |   |   |
|--|----|---|---|
|  | AR | 3 | Andrews, B.J., et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2 $\mu$ m Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology, Washington, D.C. (1986).                              |
|  | AS | 3 | Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology, Washington, D.C. (1995). |
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
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|---|-----|-----------------|------------|----------------|-------|-----------|-------------|
| EXAMINER INITIAL  |     | DOCUMENT NUMBER | DATE       | NAME           | CLASS | SUB-CLASS | FILING DATE |
|  | AA4 | 6,040,430       | 03/21/2000 | Stewart        | 530   | 358       | 12/26/1995  |
|   | AB4 | 6,063,627       | 06/16/2000 | McVey et al.   | 435   | 440       | 02/25/1998  |
|   | AC4 | 5,348,886       | 09/20/1994 | Lee et al.     | 435   | 320.1     | 09/04/1992  |
|   | AD4 | 6,171,861       | 01/09/2001 | Hartley et al. | 435   | 455       | 01/12/1998  |
|   | AE  |                 |            |                |       |           |             |
|   | AF  |                 |            |                |       |           |             |
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|   | AH  |                 |            |                |       |           |             |
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|   | AJ  |                 |            |                |       |           |             |
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| FOREIGN PATENT DOCUMENTS  |     |                 |            |         |       |           |             |
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| EXAMINER INITIAL  |     | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|  | AL4 | WO 99/10488     | 03/04/1999 | WIPO    |       |           | Yes<br>No   |
|   | AM4 | WO 00/12687     | 03/09/2000 | WIPO    |       |           | Yes<br>No   |
|   | AN4 | EP 1 035 208    | 09/13/2000 | Europe  |       |           | Yes<br>No   |
|   | AO  |                 |            |         |       |           | Yes<br>No   |
|   | AP  |                 |            |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |   |   |
|---|----|---|---|
|  | AR | 4 | Argos, P., et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440, IRL Press Limited, Oxford, England (1986).  |
|   | AS | 4 | Astumian, et al., "Site-specific recombination between cloned attP and attB sites from the Haemophilus influenza bacteriophage HPI propagated in recombination deficient <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 171:1747-1750, American Society for Microbiology, Washington, D.C. (1989). |
|   | AT | 4 | Atlung, T., et al., "A versatile method for integration of genes and gene fusions into the $\lambda$ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier/North-Holland, Netherlands (1991).   |



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| EXAMINER<br> | DATE CONSIDERED<br>3/21/02 |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|                       | AD |                 |      |      |       |           |             |
|                       | AE |                 |      |      |       |           |             |
|                       | AF |                 |      |      |       |           |             |
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|                       | AI |                 |      |      |       |           |             |
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|--------------------------|----|-----------------|------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |          |  |
|---|----|----------|--|
|  | AR | <u>5</u> | Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, (1995).  |
|  | AS | <u>5</u> | Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, pp. 8.5.1-8.5.9 (1995).              |
|   | AT | <u>5</u> | Babineau, D. et al., "The FLP Protein of the 2-micron Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1985). |

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| EXAMINER<br><i>W. H. S. Sordahl</i> | DATE CONSIDERED<br><i>3/21/02</i> |
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|                     | AA |                    |      |      |       |               |             |
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## FOREIGN PATENT DOCUMENTS

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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |          |  |
|---|----|----------|--|
|  | AR | <u>6</u> | Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and $p_L$ expression vectors," <i>Gene</i> 138:101-104, Elsevier/North-Holland, Netherlands (January 1994).                |
|   | AS | <u>6</u> | Bayley, C.C., et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Dordrecht Kluwer Academic, Boston, MA (1992).  |
|   | AT | <u>6</u> | Bethke, B., and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834, Oxford University Press, Oxford, England (1997). |

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| EXAMINER<br><i>William S. Blair</i> | DATE CONSIDERED<br><i>3/21/02</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |   |   |
|--|----|---|---|
|  | AR | 7 | Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press, Inc., New York, NY (1992). |
|  | AS | 7 | Bernard, P., et al., "Positive Selection of vectors using the F plasmid ccdB killer gene," <i>Gene</i> 148:71-74, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1994).                              |
|  | AT | 7 | Betz, U.A.K., et al., "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd., London, England (October 1996).                |


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| EXAMINER<br><i>William Smith</i> | DATE CONSIDERED<br><i>3/24/02</i> |
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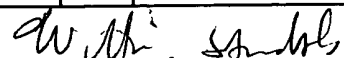
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |   |  |
|---|----|---|--|
|  | AR | 8 | Bhandari, P. and Gowrishankar, J., "An <i>Escherichia coli</i> host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology, Washington, D.C. (July 1997). |
|   | AS | 8 | Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier/North-Holland, Netherlands (1986).  |
|   | AT | 8 | Bloch, C.A., et al., "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc., New York, NY (1996).   |


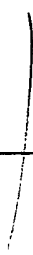
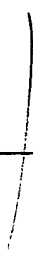
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|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |   |  |
|---|----|---|--|
|  | AR | 2 | Bochner, B. R., et al., "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology, Washington, D.C. (1980).  |
|  | AS | 2 | Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21(4):817-821, Oxford University Press, Oxford, England (1993). |
|  | AT | 2 | Broach, J. R., et al., "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," <i>Cell</i> 29:227-234, Cell Press, Cambridge, MA (1982).  |

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| EXAMINER  | <i>William S. Adams</i> | DATE CONSIDERED | <i>2/21/02</i> |
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|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                       | AD |                 |      |      |       |           |             |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |  |
|---|----|----|--|
| Q | AR | 10 | Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> $\lambda$ Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley, Chichester, NY (1993). |
|   | AS | 10 | Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," <i>BioTechniques</i> 16(6):1061-1064, Eaton Publishing Company, Natick, MA (June 1994).  |
|   | AT | 10 | Bubeck, P., et al., "Rapid cloning by homologous recombination in vivo," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford University Press, Oxford, England (1993).  |

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| EXAMINER | W. H. Smith | DATE CONSIDERED | 3/21/02 |
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>11</u> | Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24(15):3118-3119, Oxford University Press, Oxford, England (1996). |
|  | AS | <u>11</u> | Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24(21):4256-4262, Oxford University Press, Oxford, England (1996).        |
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| EXAMINER<br> | DATE CONSIDERED<br>3/21/02 |
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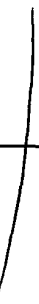

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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |  |  |  |  |  |
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|  | AR | <u>12</u> | Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," J. Bacteriol. 174(23):7495-7499, American Society for Microbiology, Washington, D.C. (1992).   |  |  |  |  |
|  | AS | <u>12</u> | Chapin, S.J., et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," Biochem. 34:2289-2301, American Chemical Society, Washington D.C. (1995).  |  |  |  |  |
|  | AT | <u>12</u> | Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by in vivo P1 packaging of products of Cre-catalyzed recombination between the endogenous and a transposed loxP site," Nucl. Acids Res. 25:2205-2212, Oxford University Press, Oxford, England (1997). |  |  |  |  |

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| EXAMINER | <i>within Embod</i> | DATE CONSIDERED | 3/21/02 |
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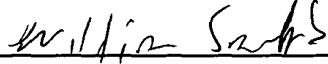
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|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AN |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>13</u> | Cox, M.M., "The FLP protein of the yeast 2- $\mu$ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227, National Academy of Sciences of the USA, Washington, D.C. (1983). |
|  | AS | <u>13</u> | Craig, N.L. and Nash, H.A., "The Mechanism of Phage $\lambda$ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase," <i>Cell</i> 35:795-803, Cell Press, Cambridge, MA (1983).  |
|   | AT | <u>13</u> | Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier/North-Holland, Netherlands (1990).  |




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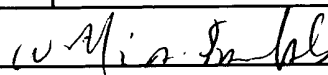
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |  |
|---|----|-----------|--|
|  | AR | <u>14</u> | Dale, E.C. and Ow, D.W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562, National Academy of Sciences of the USA, Washington, D.C. (1991). |
|  | AS | <u>14</u> | Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375, Wiley-Liss, Inc., New York, NY (1992).                         |
|  | AT | <u>14</u> | Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50, Elsevier/North-Holland, Netherlands (1996).  |

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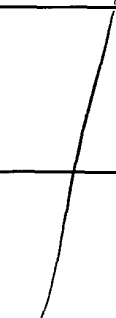
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## FOREIGN PATENT DOCUMENTS

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|                     | AL |                    |      |         |       |               | Yes<br>No   |
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|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
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|  | AS | <u>15</u> | Diederich, L., et al., "New Cloning Vectors for Integration into the $\lambda$ Attachment Site attB of the <i>Escherichia coli</i> Chromosome," Plasmid 28:14-24, Academic Press, New York, NY (1992)  |
|   | AT | <u>15</u> | Dymecki, S. M., "A modular set of F <sub>1</sub> p, FRT and lacZ fusion vectors for manipulating genes by site-specific recombination," Gene 171:197-201, Elsevier/North-Holland, Netherlands (June 1996).   |

EXAMINER

*William E. Baker*

DATE CONSIDERED

*3/21/02*

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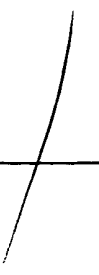

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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>16</u> | Elledge, S. J., et al., "AYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences of the USA, Washington, D.C. (1991). |
|  | AS | <u>16</u> | Feil, R., et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc., New York, NY (1997).  |
|  | AT | <u>16</u> | Ferguson, J., et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland, Netherlands (1981).                               |

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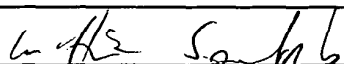
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|                          | AM |                 |      |         |       |           | Yes<br>No   |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>17</u> | Fiering, S., et al., "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the $\beta$ -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473, National Academy of Sciences of the USA, Washington, D.C. (1993). |
|   | AS | <u>17</u> | Filutowicz, M., et al., "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150, Elsevier/North-Holland, Netherlands (September 1994).  |
|   | AT | <u>17</u> | Francia, M.V., and Lobo, J.M.G., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898, American Society for Microbiology, Washington, D.C. (February 1996).   |

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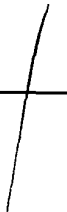
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>18</u> | Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:7905-7909, National Academy of Sciences of the USA, Washington, D.C. (1992). |
|  | AS | <u>18</u> | Geoffroy, F., et al., "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," <i>Gene</i> 151:109-113, Elsevier/North-Holland, Netherlands (December 1994).   |
|   | AT | <u>18</u> | Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," <i>J. Biol. Chem.</i> 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1989).  |

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| EXAMINER<br> | DATE CONSIDERED<br>3/21/02 |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |


## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|----|-----------|--|
|  | AR | <u>19</u> | Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," Cell 59:499-509, Cell Press, Cambridge, MA (1989).                                |
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| EXAMINER<br><i>W. C. H. S. H. S.</i> | DATE CONSIDERED<br><i>3/21/02</i> |
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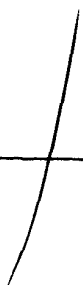
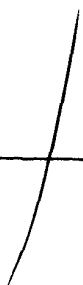


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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>20</u> | Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," J. Virol. 71(3):1842-1849, American Society for Microbiology, Washington, D.C. (1997).  |
|  | AS | <u>20</u> | Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p <sub>tac</sub> promoter," Gene 56:145-151, Elsevier/North-Holland, Netherlands (1987). |
|  | AT | <u>20</u> | Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori <sup>+</sup> plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56, Elsevier/North-Holland, Netherlands (December 1994).     |

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| EXAMINER<br><i>W. J. Lin Sawals</i> | DATE CONSIDERED<br><i>3/21/02</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>21</u> | Hashimoto-Gotoh, T., et al., "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," Gene 41:125-128, Elsevier/North-Holland, Netherlands (1986). |
|  | AS | <u>21</u> | Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," Meth. Enzymol. 194:329-342, Academic Press Inc., New York, NY (1991).  |
|  | AT | <u>21</u> | Hoess, R.H., et al., "P1 site-specific recombination: Nucleotide sequence of the recombining sites," Proc. Natl. Acad. Sci. USA 79:3398-3402, National Academy of Sciences of the USA, Washington, D.C. (1982).  |


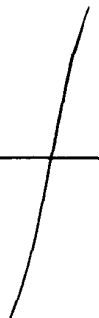
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |    |   |
|---|----|----|---|
|  | AR | 22 | Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," J. Mol. Biol. 181:351-362, Academic Press, Inc., New York, NY (1985). |
|  | AS | 22 | Hoess, R., et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," Gene 40:325-329, Elsevier/North-Holland, Netherlands (1985).           |
|   | AT | 22 | Hoess, R. H., et al., "The role of the loxP spacer region in P1 site-specific recombination," Nucl. Acids Res. 14(5):2287-2300, Oxford University Press, Oxford, England (1986).          |

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| EXAMINER <i>William Smith</i>   | DATE CONSIDERED <i>3/21/02</i> |
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|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |



## U.S. PATENT DOCUMENTS

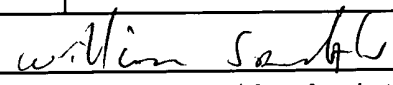
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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>23</u> | Hoess, R. H., and Abremski, K., "The Cre-lox Recombination System," in: Nucleic Acids and Molecular Biology, Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).                                    |
|  | AS | <u>23</u> | Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucl. Acids Res. 19:4133-4137, Oxford University Press, Oxford, England (1991). |
|   | AT | <u>23</u> | Holt, C.L., and May, G.S., "A novel phage $\lambda$ replacement Cre-lox vector that has automatic subcloning capabilities," Gene 133:95-97, Elsevier/North-Holland, Netherlands (1993).   |

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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>24</u> | Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," J. Bacteriol. 163:841-849, American Society for Microbiology, Washington, D.C. (1985).  |
|  | AS | <u>24</u> | Kanaar, R., et al., "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between Cis-Acting Sites," Cell 58:147-159, Cell Press, Cambridge, MA (1989). |
|  | AT | <u>24</u> | Katz, L., et al., "Site-specific Recombination in Escherichia coli between the att sites of plasmid pSE211 from Saccharopolyspora erythraea," Mol. Gen. Genet. 227:155-159, Springer-Verlag, New York, NY (1991).    |

EXAMINER

William S. A. L.

DATE CONSIDERED



3/21/02

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|                          | AN |                 |      |         |       |           | Yes<br>No   |
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|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |  |
|---|----|-----------|--|
|  | AR | <u>25</u> | Kilby, N.J., et al., "Site-specific recombinases: tools for genome engineering," Trends Genet. 9:413-421, Elsevier Science Publishers Ltd., Cambridge, England (1993).   |
|  | AS | <u>25</u> | Kim, S., et al., "Lambda Int Protein Bridges Between Higher Complexes at Two Distant Chromosomal Loci attL and attR," Science 256:198-263, Association for the Advancement of Science, Washington D.C. (1992). |
|   | AT | <u>25</u> | Kozak, M., "Comparison of Initiation of Protein Synthesis in Prokaryotes, Eucaryotes, and Organelles," Microbiol. Rev. 47:1-45, American Society For Microbiology, Washington, D.C. (1983).                    |


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|--|-------------------------|-----------------|---------|
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>26</u> | Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," Nucl. Acids res. 15:8125-8132, Oxford University Press, Oxford, England (1987).  |
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| EXAMINER | <i>Willis Sample</i> | DATE CONSIDERED | <i>3/26/02</i> |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|                          | AN |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |  |
|---|----|----|--|
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| EXAMINER <i>Walter Smith</i> | DATE CONSIDERED <i>3/2/02</i> |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |


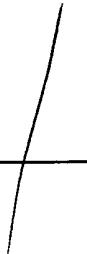

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>28</u> | Landy, A., "Dynamic, Structural, and Regulatory Aspects of $\lambda$ Site-Specific Recombination," Annu. Rev. Biochem. 58:913-949, American Chemical Society, Washington D.C. (1989).             |
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*Walter A. ...*

DATE CONSIDERED

*3/26/02*

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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

## U.S. PATENT DOCUMENTS

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|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>29</u> | Lee, E.C., et al., "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage $\lambda$ H' Recognition Site," <i>J. Bacteriol.</i> 173:609-617, American Society for Microbiology, Washington, D.C. (1991). |
|  | AS | <u>29</u> | Leong, J.M., et al., "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994, National Academy of Sciences of the USA, Washington, D.C. (1985). |
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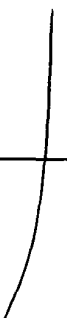
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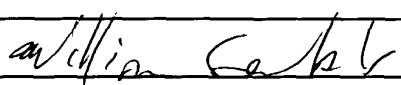
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|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |  |
|---|----|----|--|
|  | AR | 30 | Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," J. Mol. Biol. 296:1175-1181, Academic Press, Inc., New York, NY (March 2000).   |
|  | AS | 30 | Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in Escherichia coli," J. Virol. 67(8):4566-4579, American Society for Microbiology, Washington, D.C. (1993). |
|   | AT | 30 | Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts," Mol. Gen. Genet. 230:170-176, Springer-Verlag, New York, NY (1991).  |

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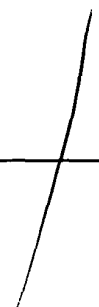

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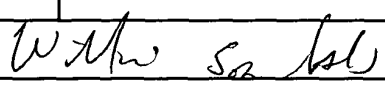
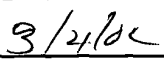
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>31</u> | Matsuzaki, H., et al., "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618, American Society for Microbiology, Washington, D.C. (1990). |
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|  | AT | <u>31</u> | McCarthy, J.E. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet.</i> 10:402-407, Elsevier Science Publishers Ltd., Cambridge, England (November 1994).                                |

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|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>32</u> | Medberry, S.L., et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," Nucl. Acids Res. 23:485-490, Oxford University Press, Oxford, England (1995).  |
|  | AS | <u>32</u> | Miki, T. et al., "Control of Segregation of Chromosomal DNA by Sex Factor F in Escherichia coli. Mutants of DNA Gyrase Subunit A Suppress letD (ccdB) Product Growth Inhibition," J. Mol. Biol. 225:39-52, Academic Press, Inc., New York, NY (1992). |
|  | AT | <u>32</u> | Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ: In Vitro Study of the Intermolecular Reaction," Cold Spring Harb. Symp. Quant. Biol. 43:1111-1114, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1979). |

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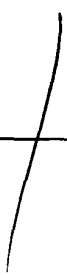

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|                          | AO |                 |      |         |       |           | Yes<br>No   |
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|   |    |    |  |
|---|----|----|--|
|  | AR | 33 | Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," Nucl. Acids Res. 13:1193-1208, Oxford University Press, Oxford, England (1985).             |
|  | AS | 33 | Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," Mol. Gen. Genet 236:1-7, Springer-Verlag, New York, NY (1992).                  |
|  | AT | 33 | Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," Nucl. Acids Res. 25(12):2539-2540, Oxford University Press, Oxford, England (1997). |

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| EXAMINER | <i>William S. Huls</i> | DATE CONSIDERED | 3/21/02 |
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| FORM PTO-1449<br><br>INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
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|  | AS | <u>34</u> | Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," Proc. Natl. Acad. Sci. USA 72:1072-1076, National Academy of Sciences of the USA, Washington, D.C. (1975).  |
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|----------|----------------------|-----------------|---------|
| EXAMINER | <i>William Smith</i> | DATE CONSIDERED | 3/21/02 |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|----|----|--|
|  | AR | 35 | Nash, H. A., "Purification and Properties of the Bacteriophage Lambda Int Protein," Meth. Enzymol. 100:210-216, Academic Press Inc., New York, NY (1983).  |
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| EXAMINER |  | DATE CONSIDERED | 3/21/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>36</u> | Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage λ," Trends Biochem. Sci 15:222-227, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1990).   |
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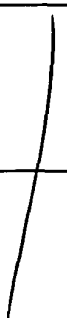
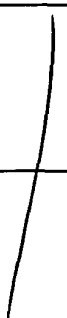
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
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|                          | AP |                 |      |         |       |           | Yes<br>No   |

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|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>37</u> | Nunes-Duby, S.E., et al., "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in $\lambda$ Excisive Recombination," Cell 59:197-206, Cell Press, Cambridge, MA (1989). |
|  | AS | <u>37</u> | Nunes-Duby, et al., "Similarities and differences among 105 members of the Int family of site-specific recombinases," Nucl. Acids Res. 26:391-406, Oxford University Press, Oxford, England (1998).                                    |
|  | AT | <u>37</u> | Oberto, J., et al., "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," Nucl. Acids Res. 22(3):354-356, Oxford University Press, Oxford, England (February 1994).                                     |

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| EXAMINER | <i>W. Allen</i> <i>FA/AC</i> | DATE CONSIDERED | <i>3/21/01</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AL |                    |      |         |       |               | Yes<br>No   |
|                          | AM |                    |      |         |       |               | Yes<br>No   |
|                          | AN |                    |      |         |       |               | Yes<br>No   |
|                          | AO |                    |      |         |       |               | Yes<br>No   |
|                          | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |   |
|---|----|----|---|
| 2 | AR | 38 | Oliner, J.D., et al., "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197, Oxford University Press, Oxford, England (1993).  |
|   | AS | 38 | Orban, P. C., et al., "Tissue- and site-specific DNA recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6861-6865, National Academy of Sciences of the USA, Washington, D.C. (1992).   |
|   | AT | 38 | Osborne, B.I., et al., "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-lox," <i>Plant J.</i> 7:687-701, Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology, Oxford, England (1995). |

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| EXAMINER<br><i>William S. HHS</i> | DATE CONSIDERED<br><i>2/21/02</i> |
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|   | APPLICANT<br>Hartley et al.      |                               |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>39</u> | Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier/North-Holland, Netherlands (February 1996).   |
|   | AS | <u>39</u> | Palazzolo, M. J., et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36, Elsevier/North-Holland, Netherlands (1990).                |
|   | AT | <u>39</u> | Pan, G., et al., "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1993). |

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| EXAMINER | <i>William S. Smith</i> | DATE CONSIDERED | <i>3/21/02</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>40</u> | Parks, R.J., and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," <i>J. Virol.</i> 71(4):3293-3298, American Society for Microbiology, Washington, D.C. (1997). |
|  | AS | <u>40</u> | Peakman, T. C., et al., "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific <i>in vitro</i> recombination," <i>Nucl. Acids Res.</i> 20:495-500, Oxford University Press, Oxford, England (1992).    |
|   | AT | <u>40</u> | Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome," <i>Gene</i> 187:231-238, Elsevier/North-Holland, Netherlands (1997).                                  |

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| EXAMINER<br> | DATE CONSIDERED<br>3/21/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

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|   | AS | <u>41</u> | Pierce, J. C., et al., "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 89:2056-2060, National Academy of Sciences of the USA, Washington, D.C. (1992). |
|   | AT | <u>41</u> | Podhajska, A. J., et al., "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated att-nutL-p-att-N module," <i>Gene</i> 40:163-168, Elsevier/North-Holland, Netherlands (1985).                                      |

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| EXAMINER | <i>William Sample</i> | DATE CONSIDERED | <i>3/21/02</i> |
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                    |      |      |       |               |             |
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| EXAMINER<br>INITIAL      |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
|                          | AL |                    |      |         |       |               | Yes<br>No   |
|                          | AM |                    |      |         |       |               | Yes<br>No   |
|                          | AN |                    |      |         |       |               | Yes<br>No   |
|                          | AO |                    |      |         |       |               | Yes<br>No   |
|                          | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>42</u> | Pósfai, G., et al., "In vivo excision and amplification of large segments of the <i>Escherichia coli</i> genome," Nucl. Acids Res. 22(12):2392-2398, Oxford University Press, Oxford, England (June 1994).   |
|  | AS | <u>42</u> | Prasad, P. V., et al., "Substrate Recognition by the 2 $\mu$ m Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," Mol. Cell. Biol. 6:4329-4334, American Society for Microbiology, Washington, D.C. (1986).                                   |
|  | AT | <u>42</u> | Qian, X., et al., "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," J. Biol. Chem 267(11):7794-7805, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1992). |

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| EXAMINER | <i>W. Alim Sami</i> | DATE CONSIDERED | <i>3/21/02</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

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|   | AT | <u>43</u> | Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021, Cell Press, Cambridge, MA (1986). |

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*William Smith*

DATE CONSIDERED

*3/2/02*

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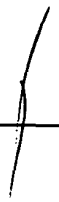


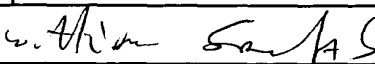
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|----|-----------|--|
|  | AR | <u>44</u> | Richet, E., et al., "Synopsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," Cell 52:9-17, Cell Press, Cambridge, MA (1988). |
|  | AS | <u>44</u> | Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2):341-347, American Society for Microbiology, Washington, D.C. (1986).                         |
|   | AT | <u>44</u> | Sadowski, P.D., "The Flp recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," Prog. Nucl. Acid Res. Mol. Biol. 51:53-91, Academic Press, New York, NY (1995).                          |

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| EXAMINER |  | DATE CONSIDERED | 3/21/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AL |                 |      |         |       |           | Yes<br>No   |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |           |  |
|--|----|-----------|--|
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|  | AS | <u>45</u> | Sauer, B., "Functional Expression of the cre-lox Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 7:2087-2096, American Society for Microbiology, Washington, D.C. (1987). |
|  | AT | <u>45</u> | Sauer, B. and Henderson, N., "The cyclization of linear DNA in <i>Escherichia coli</i> by site-specific recombination," <i>Gene</i> 70:331-341, Elsevier/North-Holland, Netherlands (1988).  |




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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
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|  | AS | <u>46</u> | Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," Meth. Enzymol. 225:890-900, Academic Press Inc., New York, NY (1993).  |
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| EXAMINER | <i>W. Alip Sr. Hls</i> | DATE CONSIDERED | <i>3/21/02</i> |
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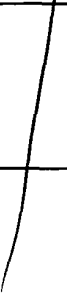
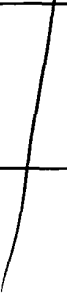
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|   | APPLICANT<br>Hartley et al.      |                               |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>47</u> | Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24(23):4608-4613, Oxford University Press, Oxford, England (1996).  |
|  | AS | <u>47</u> | Sauer, B., "Inducible Gene Targeting in Mice Using the Cre/lox System," <i>Methods</i> 14:381-392, Academic Press, Inc., New York, NY (April 1998).  |
|  | AT | <u>47</u> | Schindelhauer, D., and Cooke, H.J., "Efficient combination of large DNA in vitro: in gel site specific recombination (IGSSR) of PAC fragments containing $\alpha$ satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243, Oxford University Press, Oxford, England (1997). |

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| EXAMINER<br><i>William S. Mills</i> | DATE CONSIDERED<br><i>3/21/02</i> |
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## U.S. PATENT DOCUMENTS

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|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|-----------|----|-----------|---|
| <i>ch</i> | AR | <u>48</u> | Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochem.</i> 33:12746-12751, American Chemical Society, Washington D.C. (November 1994).                    |
| /         | AS | <u>48</u> | Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576, IRL Press Limited, Oxford, England (1993).                                 |
| /         | AT | <u>48</u> | Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463, Blackwell Science Ltd., Oxford, England (1996). |

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*William S. AHS*

DATE CONSIDERED

*3/21/02*


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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>49</u> | Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 $\mu$ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421, Academic Press, Inc., New York, NY (1988).                     |
|   | AS | <u>49</u> | Sheffield, P. et al., "Overcoming Expression and Purification Problems of RhoGDI Using a Family of "Parallel" Expression Vectors," <i>Protein Expr. Purific.</i> 15:34-39, Academic Press, New York, NY (1999).                                 |
|   | AT | <u>49</u> | Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108, National Academy of Sciences of the USA, Washington, D.C. (1991). |

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| EXAMINER |  | DATE CONSIDERED | 3/21/02 |
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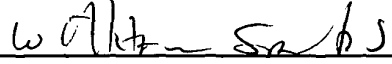
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| FORM PTO-1449<br><br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |   |
|---|----|-----------|---|
|  | AR | <u>50</u> | Sizemore, C., et al., "Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants," Nucl. Acids Res. 18(10):2875-2880, Oxford University Press, Oxford, England (1990).    |
|   | AS | <u>50</u> | Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," Nat. Gen. 9:376-385, Nature Publishing Co., New York, NY (April 1995).        |
|   | AT | <u>50</u> | Snaith, M.R., et al., "Multiple cloning sites carrying loxP and FRT recognition sites for the Cre and Flp site-specific recombinases," Gene 166:173-174, Elsevier/North-Holland, Netherlands (December 1995). |


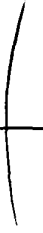
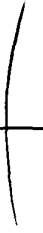
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>51</u> | Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage $\lambda$ Integrative Recombination: Implications for Mechanism and DNA Structure," Cell 42:325-334, Cell Press, Cambridge, MA (1985).   |
|  | AS | <u>51</u> | Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1981). |
|  | AT | <u>51</u> | Sternberg, N., et al., "Bacteriophage P1 cre Gene and its Regulatory Region," J. Mol. Biol. 187:197-212, Academic Press, Inc., New York, NY (1986).  |

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| EXAMINER |  | DATE CONSIDERED | 3/21/02 |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |  |
|---|----|----|--|
|  | AR | 52 | Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," <i>Proc. Natl. Acad. Sci. USA</i> 87:103-107, National Academy of Sciences of the USA, Washington, D.C. (1990). |
|   | AS | 52 | Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," <i>Nucl. Acids Res.</i> 24:4594-4596, Oxford University Press, Oxford, England (1996).  |
|   | AT | 52 | Strathmann, M., et al., "Transposon-facilitated DNA sequencing," <i>Proc. Natl. Acad. Sci. USA</i> 88:1247-1250, National Academy of Sciences of the USA, Washington, D.C. (1991).   |

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| EXAMINER | <i>Walia S. Ali</i> | DATE CONSIDERED | <i>3/21/02</i> |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>53</u> | Thompson, J. F., et al., "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351, American Society for Microbiology, Washington, D.C. (1986).                     |
|   | AS | <u>53</u> | Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage $\lambda$ : Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327, National Academy of Sciences of the USA, Washington, D.C. (1988).   |
|   | AT | <u>53</u> | Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," <i>Proc. Natl. Acad. Sci. USA</i> 95:5505-5510, National Academy of Sciences of the USA, Washington, D.C. (May 1998). |


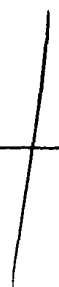
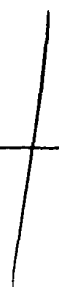
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|  | APPLICANT<br>Hartley et al.      |                               |
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|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |   |
|---|----|-----------|---|
|  | AR | <u>54</u> | Tsurushita, N., et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," <i>Gene</i> 172:59-63, Elsevier/North-Holland, Netherlands (1996). |
|  | AS | <u>54</u> | Vanin, E.F., et al., "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," <i>J. Virol.</i> 71:7820-7826, American Society for Microbiology, Washington, D.C. (1997).                   |
|  | AT | <u>54</u> | Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," <i>Nucl. Acids Res.</i> 21(9):2265-2266, Oxford University Press, Oxford, England (1993).    |

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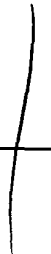
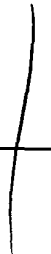
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |    |   |
|---|----|----|---|
|  | AR | 55 | Wang, G., et al., "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878, National Academy of Sciences of the USA, Washington, D.C. (1993). |
|  | AS | 55 | Wasserman, S.A., et al., "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," <i>Nature</i> 334:448-450, Macmillan Publishers Ltd., London, England (1988).   |
|  | AT | 55 | Wierzbicki, A., et al., "A Mutational Analysis of the Bacteriophage P1 Recombinase Cre," <i>J. Mol. Biol.</i> 195:785-794, Academic Press, Inc., New York, NY (1987).   |

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| EXAMINER | <i>William S. Sabel</i> | DATE CONSIDERED | 3/5/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
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|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
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|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>56</u> | Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. W. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).   |
|  | AS | <u>56</u> | Wild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene</i> 179:181-188, Elsevier/North-Holland, Netherlands (1996).               |
|  | AT | <u>56</u> | Wild, J., et al., "Targeting and retrofitting pre-existing libraries of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66, Elsevier/North-Holland, Netherlands (1998). |


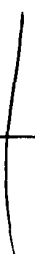
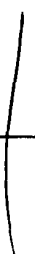
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| EXAMINER  | <i>William S. Smith</i> | DATE CONSIDERED | <i>3/21/02</i> |
| <b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. |                         |                 |                |

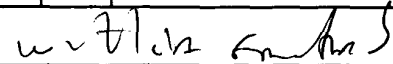
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| FORM PTO-1449<br><br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| FOREIGN PATENT DOCUMENTS |    |                 |      |         |       |           |             |
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| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>57</u> | Winoto, A., et al., "Directional Control of Site-specific Recombination by Bacteriophage λ," J. Mol. Biol. 192:677-680, Academic Press, Inc., New York, NY (1986).                                     |
|  | AS | <u>57</u> | Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," Structure 5:1401-1406, Current Biology, London, England (1997).   |
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|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |


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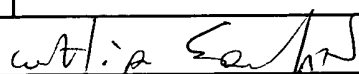
## FOREIGN PATENT DOCUMENTS

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|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AL |                 |      |         |       |           | Yes<br>No   |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |  |
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|  | AR | <u>59</u> | Zhu, et al., "Homology requirements for ligation and strand exchange by the FLP recombinase," J. Biol. Chem. 270:11646-11653, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1995).                         |
|   | AS | <u>59</u> | International Search Report for International Application No. PCT/US98/22589, mailed October 26, 1998.   |
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| EXAMINER | <i>William Smith</i> | DATE CONSIDERED | <i>3/2/00</i> |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

## U.S. PATENT DOCUMENTS

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|                  | AL |                 |      |         |       |           | Yes<br>No   |
|                  | AM |                 |      |         |       |           | Yes<br>No   |
|                  | AN |                 |      |         |       |           | Yes<br>No   |
|                  | AO |                 |      |         |       |           | Yes<br>No   |
|                  | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| 1  | AS | 60 | Green, R. and Noller, H.F., "Ribosomes and Translation," <i>Ann. Rev. Biochem.</i> 66:679-716, Annual Reviews, Inc., Palo Alto, CA (1997).  |
| 1  | AT | 60 | Jeong, J.-H., et al., "Cloning and nucleotide sequencing of the genes, <i>rplU</i> and <i>rpmA</i> , for ribosomal proteins L21 and L27 of <i>Escherichia coli</i> ," <i>J. DNA sequencing and Mapping</i> 4:59-67, Harwood Academic Publishers GmbH, Switzerland (1993). |

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William S. H. S.

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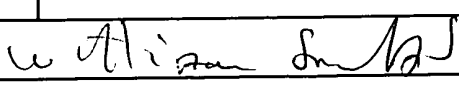
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |   |
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|   | AS | <u>61</u> | Lake, J.A., "Evolving Ribosome Structure: Domains in Archaeobacteria, Eubacteria, Eocytes and Eukaryotes," <i>Ann. Rev. Biochem.</i> 54:507-530, Annual Reviews, Inc., Palo Alto, CA (1985).                                  |
|   | AT | <u>61</u> | Mackie, G.A., "Nucleotide Sequence of the Gene for Ribosomal Protein S20 and Its Flanking Regions," <i>J. Biol. Chem.</i> 256:8177-8182, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981). |


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| EXAMINER |  | DATE CONSIDERED | 3/2/02 |
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|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

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|                          | AM |                 |      |         |       |           | Yes<br>No   |
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|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |    |  |  |  |  |  |
|---|----|----|--|--|--|--|--|
|  | AR | 62 | Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews, Inc., Palo Alto, CA (1984). |  |  |  |  |
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|   | AT | 62 | Wittmann, H.G., "Architecture of Prokaryotic Ribosomes," Ann. Rev. Biochem. 52:35-65, Annual Reviews, Inc., Palo Alto, CA (1983).                                  |  |  |  |  |

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|---|----------------------|-----------------|---------|
| EXAMINER  | <i>Cynthia Smith</i> | DATE CONSIDERED | 3/21/01 |
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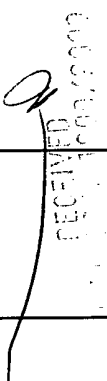
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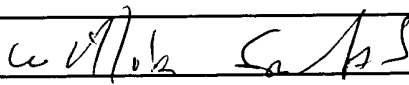
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|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|----|----|--|
|  | AR | 63 | Jayaram, M., "The Int family of site-specific recombinases: Some thoughts on a general reaction mechanism," J. Genet. 67:29-36, Indian Academy Of Sciences Bangalore, Bangalore, India (1988).         |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |    |   |
|--|----|----|---|
| RECEIVED<br>JUL 1 1999                                       | AR | 64 | Pending U.S. Non-Provisional Patent Application No. 09/233,492, filed January 20, 1999. |
|  | AS | 64 | Pending U.S. Non-Provisional Patent Application No. 09/296,280, filed April 22, 1999.   |
|  | AT | 64 | Pending U.S. Non-Provisional Patent Application No. 09/296,281, filed April 22, 1999.   |


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|----------------------------------|----------------------------|
| EXAMINER<br><i>William Smith</i> | DATE CONSIDERED<br>3/21/02 |
|----------------------------------|----------------------------|

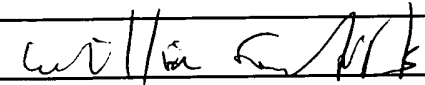
**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

|  |                                  |                               |
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
|-----------------------|----|-----------------|------|------|-------|-----------|-------------|
| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|                       | AA |                 |      |      |       |           |             |
|                       | AB |                 |      |      |       |           |             |
|                       | AC |                 |      |      |       |           |             |
|                       | AD |                 |      |      |       |           |             |
|                       | AE |                 |      |      |       |           |             |
|                       | AF |                 |      |      |       |           |             |
|                       | AG |                 |      |      |       |           |             |
|                       | AH |                 |      |      |       |           |             |
|                       | AI |                 |      |      |       |           |             |
|                       | AJ |                 |      |      |       |           |             |
|                       | AK |                 |      |      |       |           |             |

| FOREIGN PATENT DOCUMENTS |    |                 |      |         |       |           |             |
|--------------------------|----|-----------------|------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |           |  |
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|  | AR | <u>65</u> | Pending U.S. Non-Provisional Patent Application No. 09/432,085, filed November 02, 1999. |
|   | AS | <u>65</u> | Pending U.S. Non-Provisional Patent Application No. 09/438,358, filed November 12, 1999. |
|   | AT | <u>65</u> | Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000.  |

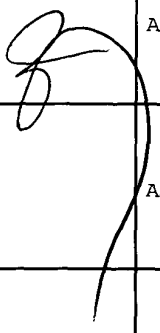
|   |   |                 |         |
|---|---|-----------------|---------|
| EXAMINER  |  | DATE CONSIDERED | 3/21/02 |
| <b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. |   |                 |         |

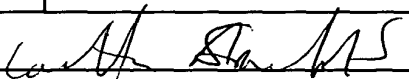
|  |                                  |                               |
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| FORM PTO-1449<br><u>INFORMATION DISCLOSURE STATEMENT</u> | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|  | APPLICANT<br>Hartley et al.      |                               |
|  | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
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| EXAMINER INITIAL      |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|                       | AA |                 |      |      |       |           |             |
|                       | AB |                 |      |      |       |           |             |
|                       | AC |                 |      |      |       |           |             |
|                       | AD |                 |      |      |       |           |             |
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|                       | AF |                 |      |      |       |           |             |
|                       | AG |                 |      |      |       |           |             |
|                       | AH |                 |      |      |       |           |             |
|                       | AI |                 |      |      |       |           |             |
|                       | AJ |                 |      |      |       |           |             |
|                       | AK |                 |      |      |       |           |             |

| FOREIGN PATENT DOCUMENTS |    |                 |      |         |       |           |             |
|--------------------------|----|-----------------|------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL |                 |      |         |       |           | Yes<br>No   |
|                          | AM |                 |      |         |       |           | Yes<br>No   |
|                          | AN |                 |      |         |       |           | Yes<br>No   |
|                          | AO |                 |      |         |       |           | Yes<br>No   |
|                          | AP |                 |      |         |       |           | Yes<br>No   |

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|  | AR | 66 | Pending U.S. Non-Provisional Patent Application No. 09/517,466, filed March 2, 2000.    |
|   | AS | 66 | Pending U.S. Non-Provisional Patent Application No. 09/518,188, filed March 2, 2000.    |
|   | AT | 66 | Pending U.S. Non-Provisional Patent Application No. 09/695,065, filed October 25, 2000. |

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|---|----------------------------|
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| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>0942.285000C | APPLICATION NO.<br>09/648,790 |
|   | APPLICANT<br>Hartley et al.      |                               |
|   | FILING DATE<br>August 28, 2000   | GROUP<br>1636                 |



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| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING DATE |
|---------------------|----|--------------------|------|------|-------|---------------|-------------|
|                     | AA |                    |      |      |       |               |             |
|                     | AB |                    |      |      |       |               |             |
|                     | AC |                    |      |      |       |               |             |
|                     | AD |                    |      |      |       |               |             |
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|                     | AH |                    |      |      |       |               |             |
|                     | AI |                    |      |      |       |               |             |
|                     | AJ |                    |      |      |       |               |             |
|                     | AK |                    |      |      |       |               |             |

## FOREIGN PATENT DOCUMENTS

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|---------------------|----|--------------------|------|---------|-------|---------------|-------------|
|                     | AL |                    |      |         |       |               | Yes<br>No   |
|                     | AM |                    |      |         |       |               | Yes<br>No   |
|                     | AN |                    |      |         |       |               | Yes<br>No   |
|                     | AO |                    |      |         |       |               | Yes<br>No   |
|                     | AP |                    |      |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |           |  |
|---|----|-----------|--|
|  | AR | <u>67</u> | Pending U.S. Non-Provisional Patent Application No. 09/732,914, filed December 11, 2000. |
|  | AS | <u>67</u> |  |
|   | AT |           |  |

EXAMINER

*William S. S.*

DATE CONSIDERED

*3/21/02*

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